

DEVICE HAVING A POLYSOMIC DRIVE BODY FOR GENERATING PULSED MOTIONS IN A GAS, LIQUID AND/OR BULK GOOD

5 BACKGROUND OF INVENTION

Field of Invention

The present invention relates to a device having a polysomic drive body for generating pulsed motions in a gas, liquid and/or of a bulk good.

Description of Related Art

10 The patent document WO 99/05435 ABT discloses a gear unit transmitting torques in positive, i.e. geometrically locking manner between two shafts which are connected to the ends of a chain of at least two displaceable connecting links, where this chain is based on the principle of the everted, hereafter invertable links cube (Paul Schatz, "Rhythmusforschung und Technik", ["Rhythm Research and Engineering"] Freies
15 Geistesleben Publisher, 1975/98, 2nd edition). In one embodiment mode the two connecting links are circular panes or tori allowing converting the kinetic energy of a flow of gas, of liquid or of another viscous medium, into a torque applied to two shafts rotating in pulsed manner. Inversely, a torque applied to at least one rotating shaft may be converted also into a pulsed flow motion of a gas, of a liquid or another viscous medium, however the
20 relative motion of the two circular panes do generate high power dissipation and thereby entail low efficiency.

SUMMARY OF THE INVENTION

25 The objective of the present invention is to offer palliation. Its goal is to create a device generating pulsed motions and comprising a drive body of maximum efficiency.

The present invention solves this problem by a pulsed motion generator comprising two parallel shafts each having a longitudinal axis each having a rear end and each having a front end, a gear unit comprising at least two gears being oval gears and each gear being